Basic controller for bottle coolers, with weekly learning a



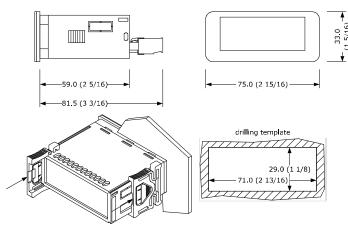




- power supply 230 VAC
- cabinet probe and evaporator probe (PTC/NTC)
- door switch input
- compressor relay 16 A res. @ 250 VAC
- cooling or heating operation
- operation with programming key.

1 MEASUREMENTS AND INSTALLATION

Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided.

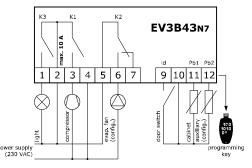


- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in) Ensure that the working conditions are within the limits stated in the TECHNICAL SPECIFICATIONS section.
 - Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks.
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

2 ELECTRICAL CONNECTION



Use cables of an adequate section for the current running through them. To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables



PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque. If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section $\it TECHNICAL\ SPECIFICATIONS.$
- Disconnect the power supply before doing any type of maintenance.
- Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network.

- Install following the instructions given in the section MEASUREMENTS AND INSTALLA-TION.
- Power up the device as shown in the section ELECTRICAL CONNECTION and an internal test will be run.
- The test normally takes a few seconds, when it is finished the display will switch off

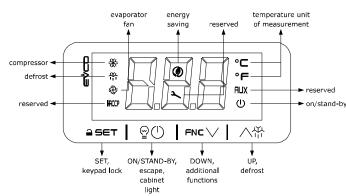
3.	Configure the device as shown in the section Setting configuration parameters.
	Recommended configuration parameters for first-time use.

	noodiniionada domigaration paramotors for mist timo aso.						
PAR.	DEF.	PARAMETER	MIN MAX.				
SP	0.0	setpoint	r1 r2				
P0	1	probe type	0 = PTC 1 = NTC				
P2	0	temperature unit of measurement	0 = °C 1 = °F				
d1	0	defrost type	0 = electric 1 = hot gas				
			2 = compressor stopped				

Then check that the remaining settings are appropriate; see the section CONFIGURA-TION PARAMETERS.

- Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.
- Power up the device.

4 USER INTERFACE AND MAIN FUNCTIONS



Switching the device on/off

If POF = 1, touch the ON/STAND-BY key for 2 s.

If the device is switched on, the display will show the P5 value ("cabinet temperature" default): if the display shows an alarm code, see the section ALARMS.

LED	ON	OFF	FLASHING
*	compressor on	compressor off	- compressor protection active - setpoint setting active
*	defrost active	-	defrost delay active dripping active
@	evaporator fan on	evaporator fan off	evaporator fan stop active
(energy saving active low consumption active	-	-
°C/°F	view temperature	-	overcooling or overheating active
(1)	device off	device on	device on/off active

If 30 s have elapsed without the keys being pressed, the display will show the " \mathbf{Loc} " label and the keypad will lock automatically.

4.2 Unlock keypad

Touch a key for 1 s: the display will show the label "UnL".

4.3	Set the setpoint				
Check t	Check that the keypad is not locked.				
1.	≙SET	Touch the SET key.			
2.		Touch the UP or DOWN key within 15 s to set the value within the limits r1 and r2 (default "-40 50")			
3.	≙ SET	Touch the SET key (or do not operate for 15 s).			

Activate manual defrost (if r5 = 0, default)

Check that the keypad is not locked and that overcooling is not active.

Touch the UP key for 4 s.

If P4 = 1 (default), defrost is activated provided that the evaporator temperature is lower than

Cabinet light on/off (if P13 = 0)

Touch the ON/STAND-BY key.

5	ADDITIONAL FUNC	TIONS			
5.1	Activate/deactivate overcooling, overheating and manual energy saving				
	that the keypad is no				
1.	FNC	Touch the DOWN key.			

FUNCTION	CONDITION	CONSEQUENCE
overcooling	r5 = 0, $r8 = 1$ and defrost	the setpoint becomes "setpoint -
	not active	r6", for the r7 duration
overheating	r5 and r8 = 1	the setpoint becomes "setpoint +
		r6", for the r7 duration
energy saving	r5 = 0 and r8 = 2	the setpoint becomes "setpoint +
		r4", at maximum for HE2 duration

View the temperature detected by the probes

Check that the keypad is not locked.

1.	FNC V		Touch the DOWN key for 4 s.
2.	₹ FNL V		Touch the UP or DOWN key within 15 s to select a label.
	LAB.	DESCRIPTION	ON
	Pb1 cabinet ten		perature
	Pb2 auxiliary te		mperature
3.	aset		Touch the SET key.
4.			Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure.

6	SETTINGS	
6.1	Setting configurat	ion parameters
1.	≙ SET	Touch the SET key for 4 s: the display will show the label "PA".
2.	≙SET	Touch the SET key.
3.	₹ FNL ◇₩ Þ	Touch the UP or DOWN key within 15 s to set the PAS value (default "-19").
4.	_ aset	Touch the SET key (or do not operate for 15 s): the display will show the label "SP".
5.		Touch the UP or DOWN key to select a parameter.
6.	≙ SET	Touch the SET key.
7.	√ FNC V	Touch the UP or DOWN key within 15s to set the value.
8.	_ aset	Touch the SET key (or do not operate for 15 s).
9.	a set	Touch the SET key for 4 s (or do not operate for 60 s) to exit the procedure.
9.		Touch the ON/STAND-BY key to exit the procedure beforehand.

6.2 Restore the factory settings (default) and store customized settings as default

N.B. i Öğ Check that the factory settings are appropriate; see the section CONFIGURATION PARAMETERS

the storing of customized settings overwrites the default.

			Ī
1.	= 9	5 €T	Touch the SET key for 4 s: the display will show the label "PA".
2.	aset		Touch the SET key.
3.	√ FN		Touch the UP or DOWN key within 15 s to set the value.
	VAL.	DESCRIPTION	ON
	149	value to res	tore the factory settings (default)
	161	value to sto	re customized settings as default
4.	==	∋€T	Touch the SET key (or do not operate for 15 s): the display will show the label "dEF" (when value "149" is set) or the label "MAP" (when value "161" is set).
5.	= 9	5ET	Touch the SET key.
6.	√ FN	<u></u>	Touch the UP or DOWN key within 15 s to set "4".
7.	==	∋ ∈⊤	Touch the SET key (or do not operate for 15 s): the display will show for 4 s "" flashing, then the device will exit the procedure.
8.	Interru	upt the powe	r supply to the device.
9.	1 = 9	5€T	Touch the SET key 2 s before action 6. to exit the procedure beforehand. $ \\$

Igor	ith	m			
7	CON	FIGUR	ATION	PARAMETERS	
	N.	PAR.	DEF.	SETPOINT	MIN MAX.
	1 N.	SP PAR.	5.0 DEF.	setpoint ANALOGUE INPUTS	r1 r2 MIN MAX.
	2	CA1	0.0	cabinet probe offset	-25 25 °C/°F
	4	CA2 P0	0.0	auxiliary probe offset probe type	-25 25 °C/°F 0 = PTC
	5 6	P1 P2	0	enable °C decimal point temperature unit of measure-	0 = no 1 = yes 0 = °C 1 = °F
	7	P4	1	ment auxiliary probe function	0 = disabled 1 = evaporator probe
_	8	P5	0	value displayed	2 = condenser probe 0 = cabinet temperature 1 = setpoint
Q	9	P8 P9	5	display refresh time symmetric differential (relative to previous day) for business activi-	2 = auxiliary temperature 0 250 s : 10 0 6 h 0 = disabled
	11	P10		ty search reserved	reserved
	12 13	P11	0	reserved number of door openings each 30	reserved
	14	P13	0	min for business activity hours of business activity previous day (±12 h) for working day	0 24 h 0 = learning algorithm disa-
	15	P14	3	door closed consecutive time for last day of vacations	bled (also set P12 = 0) 1 7 d (days)
	N. 16	PAR. r0	2.0	REGULATION setpoint differential	MIN MAX. 1 15 °C/°F
	17 18	r1 r2	-40 50.0	minimum setpoint maximum setpoint	-99 °C/°F r2 r1 199 °C/°F
	19 20	r4 r5	5.0 0	setpoint offset in energy saving cooling or heating operation	0 99 °C/°F 0 = cooling
*	21	r6	0.0	setpoint offset in overcool- ing/overheating	1 = heating 0 99 °C/°F
	22	r7 r8	30 0	overcooling/overheating duration DOWN key additional function	0 240 min 0 = disabled 1 = overcooling/overheating
	24	r12	0	position of the r0 differential	2 = energy saving 0 = asymmetric 1 = symmetric
	N. 25	PAR.	DEF.	COMPRESSOR compressor on delay after pow-	MIN MAX. 0 240 min
	26	C2	3	er-on compressor off minimum time	0 240 min
	27 28	C3 C4	0	compressor on minimum time compressor off time during cabi-	0 240 s 0 240 min
	29	C5	10	net probe alarm compressor on time during cabi-	0 240 min
	30	C6	80.0	net probe alarm threshold for high condensation	0 199 °C/°F
	31	C7	90.0	warning threshold for high condensation alarm	differential = 2 °C/4 °F 0 199 °C/°F
	32	C8	1	high condensation alarm delay	0 15 min
	N. 33	PAR. d0	DEF.	DEFROST (if r5 = 0) automatic defrost interval	MIN MAX. 0 99 h
			_		0 = only manual if d8 = 3, maximum interval
	34	d1	0	defrost type	0 = electric 1 = hot gas 2 = compressor stopped
	35 36	d2 d3	30	threshold for defrost end defrost duration	-99 99 °C/°F 0 99 min se P3 = 1, maximum duration
	37 38	d4 d5	0	enable defrost at power-on defrost dealy after power-on	0 = no 1 = yes 0 99 min
	39	d6	1	value displayed during defrost	0 = cabinet temperature 1 = display locked 2 = dEF label
	40 41	d7 d8	2	dripping time defrost interval counting mode	0 15 min 0 = device on hours
4,					1 = compressor on hours 2 = hours evaporator tem- perature < d9 3 = adaptive
	42	d9	0.0	evaporation threshold for auto-	4 = real time -99 99 °C/°F
	43	d11	0	matic defrost interval counting enable defrost timeout alarm	0 = no 1 = yes
	45	d15 d18	40	compressor on consecutive time for hot gas defrost adaptive defrost interval	0 99 min
	1/	410	2.0	threshold for ede-thin 15 :	if compressor on + evapora- tor temperature < d22 0 = only manual
	46	d19	3.0	threshold for adaptive defrost (relative to optimal evaporation temperature)	0 40 °C/°F optimal evaporation tempera- ture - d19
	47	d20	180	compressor on consecutive time for defrost	0 999 min 0 = disabled
	48	d22	2.0	evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature)	-10 10 °C/°F optimal evaporation tempera- ture + d22
	N. 49	PAR.	DEF. 10.0	ALARMS threshold for low temperature	MIN MAX. 0 99 °C/°F
	50	A4	10.0	alarm (relative to setpoint) threshold for high temperature alarm (relative to setpoint)	0 = disabled 0 99 °C/°F 0 = disabled
	51	A6	12	high temperature alarm delay after power-on	0 99 min x 10
7	52 53	A7 A8	15 15	high/low temperature alarms de- lay high temperature alarm delay af-	0 240 min
	54	A8 A9	15	ter defrost high temperature alarm delay af-	0 240 min
	55	A11	2.0	ter door closing high/low temperature alarms reset differential	1 15 °C/°F
	N. 56	PAR.	DEF.	FANS evaporator fan mode during	MIN MAX. 0 = off
				normal operation	2 = according to F15 and F16 if compressor off, on
.					if compressor on 3 = according to F1
(i)					4 = off if compressor off, according to F1 if com-
	57	F1	-1.0	threshold for evaporator fan op- eration	pressor on -99 99 °C/°F differential = 1 °C/2 °F
	58	F2	0	evaporator fan mode during de- frost and dripping	0 = off 1 = on 2 = according to F0

EVCO S.	p.A. 59	F3	2 Instru	evaporat			43B43E1 aximum	03 Page 2 of 2 PT 44/16 0 15 min
	60	F4	0	time evaporat	or fan o	ff time	during	0 240 s x 10
	61	F5	10	energy s evaporat	aving or fan o	n time	during	0 240 s x 10
	62	F15	0	energy s evaporat	aving or fan	off tim	ne with	0 240 s
	63	F16	1	compress	sor off or fan	on tim	ne with	if F0 = 2 0 240 s
	N.	PAR.	DEF.	compress	sor off			if FO = 2 MIN MAX.
	64	iO	1		tch input t	function	ı	0 = disabled 1 = compressor + evapora-
								tor fan off
								2 = evaporator fan off 3 = reserved
								4 = reserved 5 = reserved
	65	i1	0	door swif	tch input a	activatio	on	0 = with contact closed 1 = with contact open
€	66	i2	30	open doo	or alarm d	elay		-1 120 min -1 = disabled
	67	i3	15	regulatio	n inhibit n door ope		aximum	-1 120 min -1 = until the closing
	68	i10	0	door clos	sed conse		time for	
	energy saving				aving			< SP
	69	i13	180	1	of door o	penings	for de-	0 = disabled 0 240
	70	i14	32	door ope	en conse	cutive	ime for	0 = disabled 0 240 min
	N.	PAR.	DEF.	defrost DIGITAL	OUTPUTS	;		0 = disabled MIN MAX.
X	71	u0	1	auxiliary	relay fund	ction		0 = defrost 1 = evaporator fan
	N. 72	PAR. HE2	DEF.	 	SAVING (aving max			MIN MAX. 0 999 min
₹ 9°								-1 = until the door opening
	73	HE3	0	ing on ke	ive time v eys for lov			0 240 min
\bigcirc	N. 74	PAR. POF	DEF.	SAFETIE: enable O	S N/STAND	-BY key		MIN MAX. 0 = no 1 = yes
	75	PAS	-19	password	d			-99 999
8	ALAR	RMS						
COD.	_	CRIPTION OF THE PROPERTY OF TH	ON be alarn	n	RESET automat	ic	REMED - chec	
Pr2	auxi	liary pr	obe alar	m	automat	ic		k probe integrity k electrical connection
AL AH			ature al		automat automat		check A	
id COH	oper	n door a	alarm	warning	automat automat		check i	
CSd			nsation		manual			h the device off and on
dFd	defr	ost time	eout ala	rm	manual		- toucl	
9	TECL	INLCAL	CDECI	FLCATIO	NC.		- criec	x uz, us anu u i i
				FICATIO	VS	l c	on contr	
	uction							nic device
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Catego	ory of	nts		esistance 2 15/16 x	1 5/16 x	Black,	self-ext	
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N.B.
The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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